

Title (en)
Cathodal materials for lithium cells

Title (de)
Kathodenmaterialien für Lithiumzellen

Title (fr)
Matériaux à cathode pour cellules au lithium

Publication
EP 2075864 A2 20090701 (EN)

Application
EP 08020108 A 20081118

Priority
TW 96150514 A 20071227

Abstract (en)
A cathodal material for lithium cells comprises a porous lithium oxide microparticle is provided. The porous lithium oxide microparticle comprises a plurality of porous lithium oxide nanoparticles formed with a first conductive layer therein, a pore defined by connecting the lithium oxide nanoparticles, a second conductive layer covering at least a surface of one of the lithium oxide nanoparticles contacting the first conductive layer and forming a three-dimensional conductive network between the lithium oxide nanoparticles, and a conductive fiber connecting with the second conductive layer.

IPC 8 full level
H01M 4/02 (2006.01); **H01M 4/04** (2006.01); **H01M 4/50** (2010.01); **H01M 4/505** (2010.01); **H01M 4/52** (2010.01); **H01M 4/525** (2010.01); **H01M 4/58** (2010.01); **H01M 10/0525** (2010.01); **H01M 10/36** (2010.01)

CPC (source: EP KR US)
H01M 4/04 (2013.01 - KR); **H01M 4/0471** (2013.01 - EP US); **H01M 4/485** (2013.01 - KR); **H01M 4/505** (2013.01 - EP US); **H01M 4/525** (2013.01 - EP US); **H01M 4/5825** (2013.01 - EP US); **H01M 10/052** (2013.01 - KR); **H01M 10/0525** (2013.01 - EP US); **B82Y 30/00** (2013.01 - KR); **H01M 2004/021** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP US)

Citation (applicant)
SOLID STATE IONICS, vol. 176, 2005, pages 1801

Cited by
EP2395582A1; CN102280636A; CN102725887A; EP2840633A1; US9023526B2; WO2011092283A1; US8703332B2; US9287558B2

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Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2075864 A2 20090701; **EP 2075864 A3 20100120**; **EP 2075864 B1 20140402**; CA 2644302 A1 20090627; CA 2644302 C 20160628; JP 2009158489 A 20090716; JP 5072110 B2 20121114; KR 101077899 B1 20111031; KR 20090071377 A 20090701; TW 200929662 A 20090701; TW I369019 B 20120721; US 2009170003 A1 20090702; US 8986890 B2 20150324

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